

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A door-opening/closing apparatus for a vehicle comprising:
 - a body having an opening;
 - a door for closing the opening of the body;
 - a driving unit that drives the door to close the door;
 - a first sensor and a second sensor different from said first sensor;
 - a door movement detection unit responsive to a condition of said first sensor that detects a closing movement of the door and generates a movement detection output;
 - a judgment unit responsive to a condition of said second sensor that judges whether the door is attempted to be closed and generates a closing attempt output; and
 - a motor control unit that, in response to the movement detection output generated when the door movement detection unit detects a closing movement of the door, and the closing attempt output generated when the judgment unit judges that the door is attempted to be closed, controls the driving unit to automatically close the door.
2. (currently amended): The door-opening/closing apparatus according to claim 1, wherein the first sensor comprises a sensor of an operation of the driving unit, and
said door movement detection unit detects the closing movement of the door by monitoring an operation of the driving unit said first sensor.
3. (currently amended): The door-opening/closing apparatus according to claim 1, wherein the first sensor comprises a sensor of a hinge rotation angle of a hinge that supports the door, and
said door movement detection unit detects the closing movement of the door by detecting a rotation angle of a hinge that supports the door condition of said first sensor.

4. (currently amended): The door-opening/closing apparatus according to claim 1, wherein the first sensor comprises a sensor of an expansion and contraction of a damper mounted between the body and the door, and

said door movement detection unit detects the closing movement of the door by detecting expansion and contraction of a damper mounted between the body and the door a condition of said first sensor.

5. (currently amended): ~~The door-opening/closing apparatus according to claim 1~~ A door-opening/closing apparatus for a vehicle comprising:

a body having an opening;

a door for closing the opening of the body;

a driving unit that drives the door to close the door;

a first sensor and a second sensor different from said first sensor;

a door movement detection unit responsive to a condition of said first sensor that detects a closing movement of the door and generates a movement detection output;

a judgment unit responsive to a condition of said second sensor that judges whether the door is attempted to be closed and generates a closing attempt output; and

a motor control unit that, in response to the movement detection output generated when the door movement detection unit detects a closing movement of the door, and the closing attempt output generated when the judgment unit judges that the door is attempted to be closed, controls the driving unit to automatically close the door,

wherein the door includes a sensing unit as said second sensor that senses a human's touching the door, and

wherein when the sensing unit senses the human's touching the door, the judgment unit judges that the door is attempted to be closed.

6. (original): The door-opening/closing apparatus according to claim 5, wherein the sensing unit is an electrostatic switch.

7. (original): The door-opening/closing apparatus according to claim 5, wherein the sensing unit is a temperature sensor switch.

8. (currently amended): The door-opening/closing apparatus according to claim 1, wherein the body includes a vibration sensor as said second sensor that senses a vibration of the body, and

wherein when the door movement detection unit detects the closing movement of the door, and when the vibration sensor senses no vibration of the body, the judgment unit judges that the door is attempted to be closed.

9. (original): The door-opening/closing apparatus according to claim 1, wherein the door is a back door that closes a tailgate formed on a rear portion of the body.

10. (original): The door-opening/closing apparatus according to claim 1, wherein the door is a side door that closes a side gate formed on a side portion of the body.

11. - 20 (cancelled).

21. (previously presented): The door-opening/closing apparatus according to claim 1, further comprising:

a door switch for switching between a closing command and an opening command depending upon a length of ON time of the switch to close or open the door.